## **JOURNAL OF POWER SOURCES**

# The International Journal on the Science and Technology of Electrochemical Energy Systems

#### Regional Editor for N. & S. America

C.K. Dyer Compact Power Inc. 16 Seven Oaks Circle, Madison, NJ 07940 -1314, USA

#### Regional Editor for Asia and the Pacific

D.A.J. Rand CSIRO Energy Technology, Gate 1 Bayview Avenue, Box 312, Clayton South, Victoria 3169, Australia

### Regional Editor for Japan & P.R. China

Z. Ogumi SACI & INNOV Kyoto University Uji Campus 611/0011 Uji, Kyoto, Japan

# Regional Editor for Europe, Middle East and Africa

Stefano Passerini Westfälische Wilhelms-Universität Münster, Institute of Physical Chemistry, Correns Strasse 28/30, MEET, Correns Strasse 46, D-48149 Münster, Germany

#### **International Advisory Board**

A.J. Appleby (College Station, TX, USA)
M. Armand (Amiens, France)
R.J. Brodd (Henderson, NV, USA)
K.R. Bullock (Blue Bell, PA, USA)
P. Costamagna (Genova, Italy)
R.M. Dell (Abingdon, UK)
A. Dicks (Brisbane, Australia)
S. Fletcher (Leicestershire, UK)
J. Garche (Ulm, Germany)
D. Gervasio (Tempe, AZ, USA)
E.R. Gonzalez (Sao Carlos, SP, Brazil)
M. Mastragostino (Bologna, Italy)

T. Osaka (*Tokyo, Japan*) J. Owen (*Southampton, UK*)

.

#### Regional and Special Issues Co-ordinating Editor

P.T. Moseley International Lead Zinc Research Organization Inc. Suite 120, 1822 E. Highway 54 Durham NC 27713, USA

#### **Founding Editor**

D.H. Collins

#### **Associate Editors**

Takeshi Abe

Kyoto University, Graduate School of Engineering, Department of Energy and Hydrocarbon Chemistry, Nishikyo-ku, Kyoto 615-8530, Japan

Jay Benziger
Princeton University,
Department of Chemical and Biological Engineering,
A407 Engineering Quad, Princeton,
NJ 08544, USA

Yang-Kook Sun Hanyang University, College of Engineering, Department of Energy Engineering, 222 Wangsimni-ro, Seongdong-gu, Seoul 133-791, South Korea

M.R. Palacin (Catalonia, Spain)
D. Pavlov (Sofia, Bulgaria)
M. Salomon (Little Silver, NJ, USA)
B. Scrosati (Rome, Italy)
S. Singhal (Richland, WA, USA)
K. Tatsumi (Osaka, Japan)
F. Walsh (Southampton, UK)
J.Q. Wang (Tianjin, China)
M. Winter (Münster, Germany)
J. Wolfenstine (Adelphi, MD, USA)
N.-L. Wu (Taipei, Taiwan)
Y.-Y. Xia (Shanghai, PR China)
J.I. Yamaki (Kasuga, Japan)

K. Zaghib (Varennes, QC, Canada)

T.S. Zhao (Kowloon, Hong Kong)

**Aims and Scope** 

The Journal of Power Sources is the journal for researchers and technologists interested in all aspects of the science, technology and applications of sources of electrochemical power. Journal of Power Sources publishes original research and reviews about the science and applications of primary and secondary batteries, fuel cells, supercapacitors and photo-electrochemical cells. Topics considered include the research, development and applications of nanomaterials and novel componentry for these devices.

Examples of applications of these electrochemical power sources include:

- Portable electronic
- · Electric and Hybrid Electric Vehicles
- Uninterruptible Power Supply (UPS) Systems
- Storage of renewable energy
- · Satellites and deep space probes
- · Boats and ships

#### **Types of Contributions**

- · Original research articles
- State-of-the-art reviews
- Short communications